



underlined = deleted in targeting construct

**bold** = sequence flanking Neo insert in targeting construct

AGGTCGACGGCGGGCTGCCTGGAGCGGGGCGCGGGCGCCCGCAGAGATGTGACTCGGGCCGAAGGCCAGCTGGA  
GGCTCGGCCTCGGGGGCCGCGGGGTGCAATGTTCTGGGCATCAGAGAGAAAGATGAGAGCTCACCAGGTGCTCACC  
TTCTCTCTGCTCTTCGTGATCACCCTGGTGGCCCTCGAAAGCCGAGCACATCCCGAGGCTGTGGGCTGGACCTCTCT  
CCTCAGTAGCTGCTCCCTGCGGACCTGGACGCCATCTGGGGCAFTGGTGGAGGCGGTGGCGGGGGCGGGCCCTG  
ATCACACTGCTCCTGATGCTCATCTCTGTGTGGCTGCCCTTCATCAAGGAGAGGAGAGAAAGAGCCCTGTGGGC  
TCCCACTTCTGTCTCTCTGGGGACCTGGGGCTCTTTGGGCTGACGTTTGCTTCATCATCATCAGGAGGACGAGACC  
ATCTGCTCTGTCCGCGCTTCTCTGGGGCGTCTCTTTGGCTCTGCTTCTCTGCTGCTGAGCCAGGCACTGGCC  
GTGCGGAGGCTGGTGGCGCATGGCAGGGGCCCGCGGGCTGGCAGCTGGTGGGGCTGGCGCTGTGGCTGATGCTGGTG  
CAAGTCATCATCGCTGGAGTGGCTGGTCTCACCCTGTGCTGACACAAGGCCAGGCTGGCGCTACGAGCCCATG  
GACTTTGTGATGGCCCTCATCTACGACATGGTACTGCTGTGTGCTCACCCTGGGGCTGGCCCTCTTCACTCTGTGGCG  
AAGTTCAAGAGGTGGAAGCTGAACGGGGCTTCTCTCTCATCACAGCCTTCTCTCTGTGCTCATCTGGGTGGCCCTGG  
ATGACCATGTACCTCTTGGGCAATGTCAAGCTGCAGCAGGGGATGCTTGGAAACGACCCCACTTGGCCATCACGCTG  
GGGCGCAGCGGCTGGGTCTTCGTATCTTCCAGCCATCCCTGAGATCCAATGCACCTTCTTGGCAGCCCTCGAGGAG  
AACACGCCCAACTACTTTCGACAGCTCGCAGCCAGGATGCGGGAGACGGCCCTTCGAGGAGGACGTGCAGCTGCCCGGG  
GCCATATGTGAGAAACAAGSCCTTCTCCATGGATGAACACAATGCACTCTCCGAACAGCAGGATTTCCCAACGGCAGC  
TTGGGAAAAGACCAAGCTGGGAGCTTTGGGAAAAAGACCGCCTCTGTATAGAGCAACCTGTATCAGCCCACTGAG  
ATGCCCTCTGCTCAACGCTGGAGCCATCCCACTCTCTCCCAAGCTCACACAGGAAAGACACTTTGGTGAAGACT  
TTAAGTTCCAGAGAATCAGAATTTCTCTTACCAGATTGGCTCTCCCTGGCTCTGTCTTCTTGAAGGAGAAATCCGTAAC  
AGTTGCGAAACACGGGCCCTCACAGCCAGGAAATTTGGAATCTAGCCAAAGGGAATTCTGTATAATGTGAACACT  
GACGAACCTGAAAGACTTAACACCGCATGCGCCGCCCTCCCTTGCACACACAGACACGTAATACAGACAACCTTCA  
ATCCCCGAACTAAGCAAGCTAATTCGAAATAGTATTAGGCTCACTGGAATGTGGCTGGGAAGACTGTTTCTAT  
CCTCTGGGGGTAGAAGCAGAACTTACAGCTGGTGGGCGAGACTGGTGTGGTGTGGGTGGGGGCTGCCACTC  
TTATCACTCTCCCCAGAGTGTGGACCCAGGTAGCCTTTGGAGATGACCGTTGGGTGAGGACAAATGGGAC  
TTTGCCACCGGCTTGCCTGGTGGTTTGACATTTCAGGGGGGTGAGGAGTTAAGGAGGTGTGGGTGGGATTCGAA  
GGTGAGGCCCACTGAACTGTGGGGTGAGCTTTATAGCCAGTAGAGGTGGAGGGACCTGGCATGTGCCAAAGAGAG  
GGCCTCTGGGTGATGAAGTGACCATCACATTGGAAGTGATCAACCACTGTTCCTTCTATGGGGCTCTTGCTCTAAT  
GTCTATGTTGAGAACACAGGCCCGCCCTTCCCTTGTAGAGCCATAGAAATATTCCTGGCTGGGGCAGCAGTCCCTT  
CTTCCCTTGATCATCTCGCCCTGTTCCTCACTTACGGGTGTATCTCCAAATCTCTCCCAATTTTATTCCTTATTC  
ATTTCAAGAGCTCCAATGGGGTCTCCAGCTGAAAGCCCTCCGGGAGGAGGTGGAAGGCGAGGCCACCGGAGGTT  
TTCCGGATGATGTCACTTACGAGGGCTTACGGGGTTCCTAGGATGACAGAGTACCTCTCGCTGCCTCAACAGC  
AGTGACACCTCGGGTCTTCCGTGTCTATGGTGAAAAATCTCGATGGAATGGATCACATGAGGGTTTCTTGTGTCT  
TTTGGAGGGTGTGGGGGATATTTTGTGTTTGTGTTTCTGTCAGGTTCATGAAAAACAGCCCTTTTCCAGGCCATTTGTT  
TCTGTATGGTTTCACTGCTGCTGAGCAAGTATCTTGTATTAGCATTTGCAACTCTCGGCCATTCAAGAG  
CCCATGTTCTCTGCACTTTGGCCAGCATAACTCTTACATGATTCAGGACAGATTTTAACTCTGACGGCAGTGA  
ATGATATAATGAAGGGTGGCTCTTCTGACAGTACTCTAACTACTACTTCTTTTCTATAAATACCCATAGCGCT  
TTAAGCTTTAAAGAAAATGAAAAGGTTAGATGTTTGGGGGCCCGGGAGGACTGACCGCTTCAAGCCAGTACGTC  
TGAGCTGAGTATGTTTCAATTAACCTTTTGTATTTTCTCAAAAAAAAAAAAAAAAAAAAAA (SBQ ID NO:1)

FIGURE 2A